

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	L LETTER TO	ATTORNEY'S DOCKET NUMBER				
DESIGNATED/ELECTED OFFICE (DO/EO/US)			U.S. APPLICATION NO. (If known, see 37 C5R 1.5)			
		N UNDER 35 U.S.C. 371	Not yet assigned/5/6829			
PCT/FR2004/050		October 19, 2004	PRIORITY DATE CLAIMED October 31, 2003			
TITLE OF INVENTION Method for converting hydrogenous gaseous flows arising from chemical reactor units using hydrogen						
APPLICANT(S) FOR DO/EO/US L'Air Liquide, Société Anonyme à Directoire et Conseil de Surveillance pour l'Etude et l'Exploitation des Procédés Georges Claude						
Applicant herewith subm			O/US) the following items and other information:			
1. This is a FIRST s	1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.					
2. This is a SECONE	O or SUBSEQUENT si	ubmission of items concerning a submission	n under 35 U.S.C. 371.			
	3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.					
l	elected (Article 31).					
		n as filed (35 U.S.C. 371(c)(2))				
a. 🔼 is atta	ched hereto (required	only if not communicated by the Internation	nal Bureau).			
	·	the International Bureau.	·			
	c is not required, as the application was filed in the United States Receiving Office (RO/US).					
		 International Application as filed (35 U.S.C 	C. 371(c)(2)).			
	a. X is attached hereto.					
		ted under 35 U.S.C. 154(d)(4).	25 11 0 0 074(-)(0))			
	7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))					
	a. are attached hereto (required only if not communicated by the International Bureau).					
b. have been communicated by the International Bureau.						
	c. have not been made; however, the time limit for making such amendments has NOT expired. d. have not been made and will not be made.					
		e amendments to the claims under PCT Art	ticle 19 (35 U.S.C. 371(c)(3)).			
9. An oath or decla	aration of the inventor((s) (35 U.S.C. 371(c)(4)).				
	uage translation of the .S.C. 371(c)(5)).	annexes of the International Preliminary E	xamination Report under PCT			
Items 11 to 20 below concern document(s) or information included:						
11. An Information I	Disclosure Statement	under 37 CFR 1.97 and 1.98.				
2. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.						
13. X preliminary amendment.						
14. An Application C	4. An Application Data Sheet under 37 CFR 1.76.					
15. A substitute spe	A substitute specification.					
16. A power of attor	A power of attorney and/or change of address letter.					
	dable form of the sequ	uence listing in accordance with PCT Rule 1	3ter.2 and 37 CFR 1.821- 1.825.			
	of the published Intern	ational Application under 35 U.S.C. 154(d)(4).			
19. A second copy of	of the English languag	e translation of the international application	under 35 U.S.C. 154(d)(4).			

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 16 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.			ATTORNEY'S DOCKET NUMBER			
Not yet assigned / 5 76 8 29 PCT/FR2004/050511			Serie 6144			
20. Other items or information:						
•						
The following fees have been submitted					CALCULATIONS	PTO USE ONLY
21. X Basic national fee (37 CFR 1.492(a))				300		
22. 🔀 Exam	nination fee (37 Ci					
	ion prepared by IS	\$				
	US indicates all cl	200				
	rch fee (37 CFR 1.					
If the written opin	nion of the ISA/US	or the Internation	al preliminary examination rep	•		
		• •	ns of PCT Article 33(1)-(4) ne international application to		\$	
Internation	onal Searching Au	thority	·····	\$100		İ
previous	y communicated to	the US by the IB	r than the US and provided to	\$400		
All other situation	15			\$500	500	
	TOTAL OF 21, 22		1 1		1,000	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an						
	c medium) (37 CF s \$250 for each ad		of paper or fraction thereof.			
Total Sheets Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number)						
24 - 100 =	0 /50 =		0	x \$250	\$ 0	
_	30.00 for furnishing commencement of	\$ 130				
CLAIMS NUMBE		ER FILED	NUMBER EXTRA	RATE	\$	
Total claims	10) - 20 =	0	x \$ 50	\$ 0	
Independent clai	ms 1	- 3 =	0	× \$200	\$ 0	
MULTIPLE DEP	ENDENT CLAIM(S	\$				
TOTAL OF ABOVE CALCULATIONS =					\$	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						
SUBTOTAL = \$					\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						
TOTAL NATIONAL FEE = \$						
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +						
TOTAL FEES ENCLOSED = \$						· · · · · · · · · · · · · · · · · · ·
					Amount to be refunded:	\$
					Amount to be charged	\$ 1,130.00

10/576829

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`a. 🔲	A check in the amount of \$	to cover the above fees is enclosed.				
b. X	b. X Please charge my Deposit Account No. 01-1375 in the amount of \$\\$1,130.00 to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. X	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 01-1375. A duplicate copy of this sheet is enclosed.					
d. 🗌	d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						
SEND ALL CORRESPONDENCE TO: Elwood Haynes IP Dept. Air Liquide 2700 Post Oak Blvd., Suite 1800 Houston, TX 77056		SIGNATURE Elwood Haynes NAME 55,254 REGISTRATION NUMBER				

IAP12 Rec'd PCT/PTO 24 APR 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

Not yet assigned

Applicants:

François-Xavier HAULLE, et al.

Filed Internationally:

October 19, 2004

US National:

Herewith

Title:

METHOD FOR CONVERTING HYDROGENOUS GASEOUS FLOWS ARISING FROM CHEMICAL REACTOR UNITS USING

HYDROGEN

TC/A.U:

Unknown

Examiner:

Unknown

Docket No.:

Serie 6144

Customer No.:

000040582

CERTIFICATE OF MAILING BY EXPRESS MAIL

Mail Stop Patent Application Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

I hereby certify that the following documents, which are attached, are being deposited, under 37 CFR 1.10, with the United States Postal Service "Express Mail Post Office to Addressee" service as **Express Mail No. EV 856933835 US** in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on **April 24, 2006**.

- 1. A copy of International Publication WO 2005/042640;
- 2. English translation of International Application PCT/FR2004/050511;
- 3. Preliminary Amendment;
- 4. Transmittal Under 35 USC 371 (PTO Form 1390) Fee Sheet (in duplicate); and
- 5. Postcard.

Respectfully submitted,

Diana Guzman

Date: April 24, 2006

Air Liquide 2700 Post Oak Boulevard, Suite 1800 Houston, Texas 77056 (713) 624-8973